Readme

**Files:**

* A synthetic dataset: sim\_networks.rds
* Helper functions: mixture.ergm.functions.R
* Pseudolikelihood-based inference demo: demo\_mixture\_ergms\_PL.R
* Adjusted pseudolikelihood based inference demo: demo\_mixture\_ergms\_APL.R

**Session info:**

A black and white photo of a document

Description automatically generated with low confidence

**Note:** As the adjusted pseudolikelihood calculation code requires the ergm.Cprepare functionality, which was removed in ergm 4. Therefore, to run the adjusted pseudolikelihood based inference demo, please download ergm 3.10.4 from <https://cran.r-project.org/src/contrib/Archive/ergm/> and install manually. We plan to update our codes to make it compatible with ergm 4.x in the future.

**CPU info:**

**Text

Description automatically generated with low confidence**

**Computation time (using a single core of a server with configuration listed above):**

* About 1.05 hours to run demo\_mixture\_ergms\_PL.R
* About 3.41 hours to run demo\_mixture\_ergms\_APL.R